ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

C-Reactive Protein (CRP) Antibodies

Cat. # CRP11-A	Goat Anti-Human CRP IgG # 1, aff pure	**SIZE**: 100 ug
Cat. # CRP11-HRP	Goat Anti-Human CRP IgG-HRP Conjugate, aff pure	**SIZE**: 100 ug
Cat. # CRP11-FITC	Goat Anti-Human CRP IgG-FITC Conjugate, aff pure	**SIZE**: 100 ug

Pentraxins family of proteins acquired the name from their ability to form pentameric (or decameric) structures formed by non-covalent interactions. C-reactive protein (**CRP or PTX1**; mature chain 206 aa; chromosome 1q21-23) nonglycosylated, ~24 kda monomer and ~118 kda pentamer) is a ubiquitous protein found in both vertebrates and invertebrates. Originally CRP was defined as a substance, observed in the plasma of patients with acute infections, that reacted with the C polysaccharide of the pneumococcus. It is one of the plasma proteins that are called acute phase reactants because of a pronounced rise in concentration after tissue injury or inflammation; in the case of CRP the rise may be 1000-fold or more. CRP is composed of 5 identical, 21,500-molecular weight subunits. It is detectable on the surface of about 4% of normal peripheral blood lymphocytes. Acute phase reactant CRP is produced in the liver; those cells produce CRP detectable on lymphocytes.

Source of Antigen and Antibodies

Human CRP was purified from human serum/fluids (>95%) using biochemical and immunoaffinity techniques. Purity is tested by RID, SDS-PAGE, and IEP.

Cat # CRP11-A, unconjugated antibody

Purified CRP was used as immunogen to produce **polyclonal antibodies** in **goats** (Cat # **CRP11-A**). Antibodies were affinity purified and supplied as 1 mg/ml solution in PBS, pH 7.4 containing 0.05% sodium azide. Lyophilized antibodies should be reconstituted in 100 ul water and stored frozen in suitable aliquots.

Suggested Dilutions: 1:500-1:5K for Western; 1:5K-1:20K for ELISA. Further optimization may be needed under actual experimental conditions.

Species Specificity

Antibody # CRP11-A is specific for human CRP No reactivity is observed with SAP or other pentraxins. There is minimal crossreactivity with rat and mouse CRP. Other species are not tested. We recommend using anti-rat CRP (cat # CRP16-A) for detecting rat CRP.

Cat # CRP11-HRP (Anti-CRP-HRP conjugate)

Affinity purified polyclonal **anti-human CRP IgG (cat # CRP11-A) was coupled to Horseradish Peroxidase (HRP)** (**cat # CRP11-HRP**). Molar enzyme to antibody ratio is ~4:1. It is supplied at 1 mg/ml in 50 mM HEPES, pH 7.1, 0.1 M NaCl, 0.2% BSA and 0.01% thimerosal. Store at 4oC. Do freeze and thaw.

Suggested Dilutions: 1:1-1:10K for Western; 1:10K-1:50K for ELISA. Further optimization may be needed under actual experimental conditions.

Cat # CRP11-FITC (anti-CRP-FITC Conjugate)

Affinity purified polyclonal **anti-human CRP IgG (cat # CRP11-A) was coupled to FITC** (**cat # CRP11-HRP**). F/P ratio is 3 to 7. It is supplied at 1 mg/ml in PBS, pH 7.4, 0.2% BSA and 0.05% azide. Store at 4oC in the dark. Do not expose to bright light for a prolonged periods of time. Do freeze and thaw.

Suggested Dilutions: 1:200-1:1000 for immunoflurescence. Prepare working antibody dilution immediately before use. Further optimization may be needed under actual experimental conditions.

Shipping: 4oC for solutions and room temp for powder.

**All product are for In vitro research use only.*

Related material available from ADI

Rat and Dog CRP antibodies and reference controls, Human and Rat CRP ELISA Kits

CRP11-A-HRP-FITC 71217A

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